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NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 Apr 08 "Ask CAS" for self-help around the clock
NEWS 3 Apr 09 BEILSTEIN: Reload and Implementation of a New Subject Area
NEWS 4 Apr 09 ZDB will be removed from STN
NEWS 5 Apr 19 US Patent Applications available in IFICDB, IFIPAT, and IFIUDB
NEWS 6 Apr 22 Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS 7 Apr 22 BIOSIS Gene Names now available in TOXCENTER
NEWS 8 Apr 22 Federal Research in Progress (FEDRIP) now available
NEWS 9 Jun 03 New e-mail delivery for search results now available
NEWS 10 Jun 10 MEDLINE Reload
NEWS 11 Jun 10 PCTFULL has been reloaded
NEWS 12 Jul 02 FOREGE no longer contains STANDARDS file segment
NEWS 13 Jul 22 USAN to be reloaded July 28, 2002;
saved answer sets no longer valid
NEWS 14 Jul 29 Enhanced polymer searching in REGISTRY
NEWS 15 Jul 30 NETFIRST to be removed from STN
NEWS 16 Aug 08 CANCERLIT reload
NEWS 17 Aug 08 PHARMAMarketLetter(PHARMAML) - new on STN
NEWS 18 Aug 08 NTIS has been reloaded and enhanced
NEWS 19 Aug 19 Aquatic Toxicity Information Retrieval (AQUIRE)
now available on STN
NEWS 20 Aug 19 IFIPAT, IFICDB, and IFIUDB have been reloaded
NEWS 21 Aug 19 The MEDLINE file segment of TOXCENTER has been reloaded
NEWS 22 Aug 26 Sequence searching in REGISTRY enhanced
NEWS 23 Sep 03 JAPIO has been reloaded and enhanced

NEWS EXPRESS February 1 CURRENT WINDOWS VERSION IS V6.0d,
CURRENT MACINTOSH VERSION IS V6.0a(ENG) AND V6.0Ja(JP),
AND CURRENT DISCOVER FILE IS DATED 05 FEBRUARY 2002
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NEWS PHONE Direct Dial and Telecommunication Network Access to STN
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Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * STN Columbus * * * * *

08/03/01

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FILE 'HOME' ENTERED AT 19:32:41 ON 05 SEP 2002

=> FIL BIOSIS MEDLINE CAPLUS EMBASE SCISEARCH
COST IN U.S.. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.21	0.21

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FILE 'BIOSIS' ENTERED AT 19:32:53 ON 05 SEP 2002
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FILE 'SCISEARCH' ENTERED AT 19:32:53 ON 05 SEP 2002
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=> s shimeji
L1 146 SHIMEJI

=> s l1 and (Antimicrobial or bactericidal or fungicidal or microbicidal or antibacterial
or anti-bacterial or antifungal or anti-fungal or bactericide or fungicide)
L2 9 L1 AND (ANTIMICROBIAL OR BACTERICIDAL OR FUNGICIDAL OR MICROBICI
DAL OR ANTIBACTERIAL OR ANTI-BACTERIAL OR ANTIFUNGAL OR ANTI-FUN
GAL OR BACTERICIDE OR FUNGICIDE)

=> dup rem l2
PROCESSING COMPLETED FOR L2
L3 5 DUP REM L2 (4 DUPLICATES REMOVED)

=> d l3 1-5 py so ti au ab

L3 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2002 ACS
PY 2002
SO Biochemical and Biophysical Research Communications (2002), 290(1),
563-568
CODEN: BBRCA9; ISSN: 0006-291X
TI Isolation of a novel agglutinin with complex carbohydrate binding
specificity from fresh fruiting bodies of the edible mushroom *Lyophyllum*
shimeiji
AU Ng, T. B.; Lam, Y. W.
AB A hemagglutinin, with a mol. wt. of 30,000 and expressing hemagglutinating
activity which could not be inhibited by simple sugars and glycoproteins,
was isolated from fresh fruiting bodies of the edible mushroom *Lyophyllum*
shimeiji. The protein was adsorbed on CM-Sephadex even in 20 mM ammonium
acetate (pH 5.5) contg. 1 M NaCl and was desorbed by 20 mM ammonium
bicarbonate (pH 9). The hemagglutinating activity was subsequently
adsorbed on Mono S in 20 mM ammonium acetate (pH 5.5) and was desorbed by
a linear gradient of 0.2-0.5 M NaCl in ammonium acetate buffer. The
hemagglutinin exhibited a novel N-terminal sequence not found in any
lectin and hemagglutinin reported so far. It was devoid of
antifungal activity. (c) 2002 Academic Press.

08/03/01

- L3 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2002 ACS
PY 2001
2001
SO PCT Int. Appl., 52 pp.
CODEN: PIXXD2
TI *Lyophyllum shimeji* **antibacterial** protein with pyranose
oxidase activity
IN Takakura, Yoshimitsu; Kuwata, Shigeru; Inoue, Yasuhiro
AB A novel **antibacterial** protein whereby the growth of plant
pathogenic bacteria, for example, *Pyricularia oryzae* and *Rhizoctonia solani*, which are causative of the two major diseases of rice, can be
inhibited at a relatively low concn., cDNA, and recombinant expression,
are disclosed. A method of isolating the protein from *Lyophyllum shimeji*
with ammonium sulfate pptn., and ion-exchange chromatog.,
are claimed. **Antibacterial** agents contg. the protein are
claimed. The **antibacterial** protein isolated from *Lyophyllum shimeji*
had a mol. wt. of 70 kDa and about 65 kDa when detd. by
the SDS-PAGE method. The protein both isolated and recombinantly
expressed in *E. coli* showed pyranose oxidase activity toward glucose and
1,5-anhydroglucitol.
- L3 ANSWER 3 OF 5 SCISEARCH COPYRIGHT 2002 ISI (R)
PY 2001
SO BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, (27 JUL 2001) Vol.
285, No. 4, pp. 1071-1075.
Publisher: ACADEMIC PRESS INC, 525 B ST, STE 1900, SAN DIEGO, CA
92101-4495 USA.
ISSN: 0006-291X.
TI Hypsin, a novel thermostable ribosome-inactivating protein with
antifungal and antiproliferative activities from fruiting bodies
of the edible mushroom *Hypsizygus marmoreus*
AU Lam S K (Reprint); Ng T B
AB A novel ribosome-inactivating protein with a molecular weight of 20 kDa
was isolated from fruiting bodies of the mushroom *Hypsizygus marmoreus*.
The isolation procedure entailed ion exchange chromatography on
CM-cellulose, affinity chromatography on Affi-gel Blue Gel and ion
exchange chromatography on Mono Q. The protein designated hypsin
demonstrated an inhibitory action against mycelial growth in various
fungal species including *Mycosphaerella arachidicola*, *Physalospora*
piricola, *Fusarium oxysporum*, and *Botrytis cinerea* with an IC₅₀ of 2.7,
2.5, 14.2, and 0.06 μ M, respectively. Translation in the rabbit
reticulocyte lysate system was inhibited with an IC₅₀ of 7 nM and HIV-1
reverse transcriptase activity was inhibited with an IC₅₀ of 8 μ M.
Antiproliferative activity against mouse leukemia cells and human leukemia
and hepatoma cells was observed. About 60% of the translation-inhibitory
activity was retained after heating at 100 degreesC for 10 min. No loss of
translation-inhibitory activity occurred after brief treatment with
trypsin. (C) 2001 Academic Press.
- L3 ANSWER 4 OF 5 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
PY 2001
SO Biochemical and Biophysical Research Communications, (November 2, 2001)
Vol. 288, No. 3, pp. 718-721. print.
ISSN: 0006-291X.
TI Isolation of pleuturegin, a novel ribosome-inactivating protein from fresh
sclerotia of the edible mushroom *Pleurotus tuber-regium*.
AU Wang, H. X.; Ng, T. B. (1)
AB A ribosome-inactivating protein (RIP) designated pleuturegin, which
inhibited translation in a cell-free rabbit reticulocyte lysate system
with an IC₅₀ of 0.5 nM, was purified from fresh sclerotia of the edible

mushroom *Pleurotus tuber-regium*. Pleuturegin was distinguished from most plant and previously reported mushroom RIPs in that it was adsorbed on DEAE-cellulose and unadsorbed on SP-Sephadex, although all of them were adsorbed on Affi-gel blue gel. Pleuturegin demonstrated an N-terminal sequence that was different from those of RIPs from *Flammulina velutipes* (flamulin and velutin), *Hypsizygus marmoreus* (hypsin), and *Lyophyllum shimeji* (lyophyllin), the only mushroom RIPs with known N-terminal sequences. The molecular mass of pleuturegin was 38 kDa, similar to that of flamulin (40 kDa) but considerably larger than those of velutin (13.8 kDa), hypsin (20 kDa), and lyophyllin (20 kDa). Pleuturegin was devoid of ribonuclease activity.

L3 ANSWER 5 OF 5 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE 1
 PY 2001
 SO Archives of Biochemistry and Biophysics, (September 15, 2001) Vol. 393,
 No. 2, pp. 271-280. print.
 ISSN: 0003-9861.
 TI First simultaneous isolation of a ribosome inactivating protein and an
antifungal protein from a mushroom (*Lyophyllum shimeji*)
 together with evidence for synergism of their **antifungal**
 effects.
 AU Lam, S. K.; Ng, T. B. (1)
 AB From the fruiting bodies of the mushroom *Lyophyllum shimeji*, a
 novel ribosome inactivating protein with a molecular weight of 20 kDa and
 exhibiting **antifungal** activity against *Physalospora piricola*
 (IC₅₀=2.5 µM) and *Coprinus comatus* was isolated. The protein, designated
 lyophyllin, was purified by ion exchange chromatography on CM-cellulose,
 affinity chromatography on Affi-gel Blue Gel, and then ion exchange
 chromatography on Mono S. Lyophyllin possessed an N-terminal sequence with
 some similarity to those of plant ribosome-inactivating proteins. It
 inhibited translation in rabbit reticulocyte lysate with an IC₅₀ of 1 nM,
 thymidine uptake by murine splenocytes with an IC₅₀ of 1 µM and HIV-1
 reverse transcriptase activity with an IC₅₀ of 7.9 nM. Lyophyllin did not
 manifest ribonuclease or hemagglutinating activity. An **antifungal**
 protein, designated *Lyophyllum antifungal* protein (LAP), with a
 molecular weight of 14 kDa, and an N-terminal sequence somewhat analogous
 to those of angiosperm thaumatin-like proteins and thaumatin and an
 inactive variant of the ubiquitin-conjugating enzyme, was first isolated
 from *Lyophyllum shimeji*. LAP was adsorbed on CM-cellulose,
 Affi-gel blue gel, and Mono S. LAP exerted **antifungal** activity
 against *P. piricola* (IC₅₀=70 nM) and *Mycosphaerella arachidicola* but not
 against *Rhizoctonia solani*, *Colletotrichum gossypii*, and *Coprinus comatus*.
 It exerted very low translation inhibitory activity in a rabbit
 reticulocyte lysate system (IC₅₀=70 µM) and negligible ribonuclease
 activity toward yeast transfer RNA and hemagglutinating activity toward
 rabbit erythrocytes. It inhibited HIV-1 reverse transcriptase with an IC₅₀
 of about 5.2 nM. A synergism in **antifungal** activities of LAP and
 lyophyllin against *P. piricola* was demonstrable.

=> d hist

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FILE 'BIOSIS, MEDLINE, CAPLUS, EMBASE, SCISEARCH' ENTERED AT 19:32:53 ON
 05 SEP 2002

L1 146 S SHIMEJI
 L2 9 S L1 AND (ANTIMICROBIAL OR BACTERICIDAL OR FUNGICIDAL OR MICROB
 L3 5 DUP REM L2 (4 DUPLICATES REMOVED)

=>

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=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	38.47	38.68
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	ENTRY	SESSION
CA SUBSCRIBER PRICE	-1.24	-1.24

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08/03/01

	Search Terms
1	EXTRACT
2	EXTRACTS
3	LYOPHYLLUM
4	SHIMEJI
5	((LYOPHYLLUM ADJ1 SHIMEJI) AND EXTRACT)

	Search Terms
1	ORYZAE
2	SHIMEJI
3	SOLANI
4	SOLANIS
5	(SHIMEJI AND L1)

	Search Terms
1	ANTI-BACTERIAL
2	ANTI-BACTERIALS
3	ANTI-FUNGAL
4	ANTI-FUNGALS
5	ANTIBACTERIAL
6	ANTIBACTERIALS
7	ANTIFUNGAL
8	ANTIFUNGALS
9	ANTIMICROBIAL
10	ANTIMICROBIALS
11	BACTERICIDAL
12	BACTERICIDALS
13	BACTERICIDE
11	BACTERICIDES
15	FUNGICIDAL
16	FUNGICIDALS
17	FUNGICIDE
18	FUNGICIDES
19	MICROBICIDAL
20	MICROBICIDALS
21	SHIMEJI
22	(L13 AND (ANTI-FUNGAL OR MICROBICIDAL OR ANTI-BACTERIAL OR BACTERICIDE OR BACTERICIDAL OR FUNGICIDAL OR ANTIFUNGAL OR FUNGICIDE OR ANTIBACTERIAL OR ANTIMICROBIAL))